

Amendments to the Claims

This claim listing replaces all prior versions and listings of claims in the application.

1-17. (Canceled)

18. (Previously presented) An emulsion comprising an inner phase, an outer phase and an emulsifying polymer, one of the phases being an aqueous phase, wherein the emulsifying polymer is a dendritic polymer.

19. (Previously presented) The emulsion as claimed in claim 18, wherein the dendritic polymer is dispersible or soluble in water, at the pH of the emulsion.

20. (Previously presented) The emulsion as claimed in claim 18, wherein the dendritic polymer is a hyperbranched polymer comprising hydrophobic groups, and hydrophilic or potentially hydrophilic groups.

21. (Previously presented) The emulsion as claimed in claim 18, wherein the emulsion is a direct emulsion, the aqueous phase being the outer phase, and wherein at least some of the hydrophilic or potentially hydrophilic groups are groups present at the polymer chain ends.

22. (Previously presented) The emulsion as claimed in claim 18, wherein the emulsion is an inverse emulsion, the aqueous phase being the inner phase, and wherein at least some of the hydrophobic groups are groups present at the polymer chain ends.

23. (Previously presented) The emulsion as claimed in claim 18, wherein the emulsion is a multiple emulsion comprising an inner aqueous phase, an intermediate phase and an outer

aqueous phase, the inner phase and the intermediate phase constituting an inner inverse emulsion, the intermediate phase and the outer phase constituting an outer direct emulsion, and wherein at least one of the emulsions chosen from the inner inverse emulsion and the outer direct emulsion comprises the dendritic polymer.

24. (Previously presented) The emulsion as claimed in claim 23, wherein the outer direct emulsion and the inner inverse emulsion comprise the dendritic polymer.

25. (Previously presented) The emulsion as claimed in claim 18, wherein the dendritic polymer is a hyperbranched polyamide or a hyperbranched polyester.

26. **(Currently amended)** The emulsion as claimed in claim 18, wherein the dendritic polymer is a hyperbranched polymer capable of being obtained by a process comprising the following steps:

a) polycondensation, so as to obtain a polymer, of monomers comprising at least one plurifunctional monomer comprising at least three reactive functional groups, of the following formula (I):



in which formula

$[[r]]$ r is an integer greater than or equal to 2, preferably ranging from 2 to 10, most particularly equal to 2,

the symbol A represents a reactive functional group or a group carrying a reactive functional group chosen from amino, carboxyl, hydroxyl, oxiranyl, halo and isocyanato functional groups, or precursors thereof,

the symbol B represents a reactive functional group or a group carrying a reactive functional group chosen from amino, carboxyl, hydroxyl, oxiranyl, halo and isocyanato functional groups, or precursors thereof, which is an antagonist of A,

the symbol R represents a linear or branched aliphatic, cycloaliphatic or aromatic polyvalent hydrocarbon residue containing from 1 to 50, optionally interrupted by one or more oxygen, nitrogen, sulfur or phosphorus heteroatoms, said residue optionally carrying functional groups not capable of reacting with the functional groups A and B, and

Step b) optionally at least partial hydrophilic functionalization of the polymer obtained in the polycondensation step.

27. (Previously presented) The emulsion as claimed in claim 26, wherein the monomers of step a) comprise:

at least one bifunctional monomer, in linear form, of formula (II) or in the corresponding cyclic form, comprising two polycondensation/ polymerization reactive functional groups



in which formula:

the symbol A', which is identical to or different from A, represents a reactive functional group chosen from amino, carboxyl, hydroxyl, oxiranyl, halo and isocyanato functional groups, or precursors thereof, which is an antagonist of B and B',

the symbol B', which is identical to or different from B, represents a reactive functional group chosen from amino, carboxyl, hydroxyl, oxiranyl, halo and isocyanato functional groups, or precursors thereof, which is an antagonist of A and A',

the symbol R', which is identical to or different from R, represents a linear or branched aliphatic, cycloaliphatic or aromatic polyvalent hydrocarbon residue containing from 1 to 50, optionally interrupted by one or more oxygen, nitrogen, sulfur or phosphorus heteroatoms, said residue optionally carrying functional groups not capable of reacting with the functional group A, A', B and B',

the reactive functional group A' being capable of reacting with the functional group B and/or the functional group B' by condensation;

the reactive functional group B' being capable of reacting with the functional group A and/or the functional group A' by condensation; and/or at least one "core" monomer of formula (III), comprising at least one functional group capable of reacting, by condensation, with the monomer of formula (I) and/or the monomer of formula (II)



in which formula

n is an integer greater than or equal to 1, optionally ranging from 1 to 100, most particularly from 1 to 20,

the symbol B'' represents a reactive functional group, which is identical to or different from B or B', chosen from amino, carboxyl, hydroxyl, oxiranyl, halo and isocyanato functional groups, or precursors thereof, which is an antagonist of A and A',

the symbol R¹ represents a linear or branched aliphatic, cycloaliphatic or aromatic polyvalent hydrocarbon residue containing from 1 to 50, optionally interrupted by one or

more oxygen, nitrogen, sulfur or phosphorus heteroatoms, or an organosiloxane or polyorganosiloxane residue, said residue R¹ optionally carrying functional groups not capable of reacting with the functional groups

A, A', B, B' and B'',

the reactive functional group B'' being capable of reacting with the functional group A and/or the functional group A' by condensation; and/or at least one "chain limiting" mono-functional monomer of formula (IV)



in which formula

the symbol A'' represents a reactive functional group, which is identical to or different from A or A', chosen from amino, carboxyl hydroxyl, oxiranyl, halo and isocyanato functional groups, or precursors thereof, which is an antagonist of B, B' and B'',

the symbol R² represents a linear or branched aliphatic, cycloaliphatic or aromatic polyvalent hydrocarbon residue containing from 1 to 50, optionally interrupted by one or more oxygen, nitrogen, sulfur or phosphorus heteroatoms, or an organosiloxane or polyorganosiloxane residue, said residue R² optionally carrying functional groups not capable of reacting with the functional groups

A, A', A'', B, B' and B'',

the reactive functional group A'' being capable of reacting with the functional group B and/or the functional group B' and/or the functional group B'' by condensation; and

at least one of the reactive functional groups of at least one of the monomers of formula (II), (III) or (IV) being capable of reacting with a functional group which is an antagonist of the plurifunctional monomer of formula (I).

28. (Previously presented) The emulsion as claimed in claim 26, wherein the functional groups A, A' A'', and B, B', B'' are the reactive functional groups or the groups carrying reactive functional groups which are amino, carboxyl, hydroxyl, oxiranyl functional groups, or precursors thereof.

29. (Previously presented) The emulsion as claimed in claim 26, wherein at least one chain limiting monomer is further used, said monomer being hydrophilic or potentially hydrophilic.

30. (Previously presented) The emulsion as claimed in claim 18, being a formulation of a cosmetic product, of a detergent product, of a paint or of a coating.

31. (Previously presented) The emulsion as claimed in claim 30, wherein the cosmetic product formulation is a skin or hair care product.

32. (Previously presented) An emulsifying agent comprising a dendritic polymer as defined in claim 18.

33. (Previously presented) A formulation of a cosmetic product, of a detergent product, of a paint or of a coating, comprising a dendritic polymer as defined in claim 18.

34. (Previously presented) The formulation as claimed in claim 33, wherein the cosmetic product formulation is a skin or hair care product.